<u>CLAIMS</u>

1. (Previously Presented): A method, comprising:

displaying a currently displayed television program on a display;

activating a navigation system during display of the currently displayed

television program, wherein the navigation system determines and displays a set of

viewer-selectable attributes for the currently displayed television program overlaid on

the currently displayed television program, the set of attributes comprising attributes

which are each descriptive of a different aspect of the currently displayed television

program, wherein each attribute of the set of viewer-selectable attributes corresponds to

a combinable navigation context to generate a navigable sequence of television

programs;

selecting at least two attributes from the set of viewer-selectable attributes

using one or more of three navigation keys comprising a previous key, a next key and a

select key;

logically combining the navigation contexts which correspond to the selected

at least two attributes using Boolean operators;

querying a database of television programming metadata for television

program identifiers associated with the combined navigation contexts;

generating a sequence of television programs associated with the identifiers

for navigation wherein the sequence comprises a corresponding navigational axis, the

sequence of television programs including the current television program and at least

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one other television program that shares one or more of the selected attributes with the

currently displayed television program; and

navigating the sequence of television programs, wherein the navigating

comprises using the next key or previous key to change from displaying the currently

displayed television program in the sequence to displaying another television program

in the sequence, wherein the next key or previous key is used to cycle through the

sequence of television programs without having to access a menu listing the television

programs in the sequence for navigating to display of a next television program in the

sequence.

2. (Original): The method as recited in claim 1, wherein the guerying is performed by

one or more predefined queries and each predefined query is associated with a

combinable navigation context.

3. (Previously Presented): The method as recited in claim 1, wherein the set of

attributes includes an actor attribute and a director attribute, and wherein logically

combining the navigation contexts which correspond to the selected attributes

comprises logically combining navigation contexts which correspond to the actor

attribute and the director attribute to generate a single actor-director navigational axis.

4. (Original): The method as recited in claim 2, wherein links for launching the one or

more predefined queries are associated with television program content.

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5. (Original): The method as recited in claim 4, wherein the television program content

is included in a conventional broadcast television show.

6. (Original): The method as recited in claim 4, wherein the television program content

is included in one of an on-demand television show or an on-demand television movie.

7. (Original): The method as recited in claim 4, wherein the television program content

is included in television musical programming.

8. (Original): The method as recited in claim 4, wherein a link is selectable while the

television program content is playing.

9. (Original): The method as recited in claim 2, wherein links for launching the one or

more predefined queries are associated with television program metadata.

10. (Original): The method as recited in claim 9, wherein a link is selectable while the

television program metadata is displayed.

11. (Canceled)

12. (Previously Presented): The method as recited in claim 1, wherein the select key of

the navigation controls selects one or more of the combinable navigation contexts.

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13. (Original): The method as recited in claim 12, further comprising using at least one

of the combinable navigation contexts as a logical filter.

14. (Canceled)

15. (Previously Presented): The method as recited in claim 1, wherein the Boolean

operators are applied automatically based on an association between a link for

launching a predefined query corresponding to a navigation context and the television

program content associated with the link.

16. (Previously Presented): The method as recited in claim 1, wherein the Boolean

operators are applied automatically based on an association between a link for

launching a predefined query corresponding to a navigation context and the television

program metadata associated with the link.

17. (Canceled)

18. (Currently Amended): A method, comprising:

displaying content of a currently displayed first television program on a display;

activating a navigation system during display of the content of the currently

displayed first television program, wherein the navigation system automatically

determines and displays a first-set of viewer-selectable attributes that are descriptive of

different aspects of the currently displayed first television program, wherein the

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navigation system overlays the first-set of viewer-selectable attributes on the display of

the content of the currently displayed first television program;

receiving a selection of selecting one or more first attribute values from the

displayed first set of viewer-selectable attributes to define a first query for television

programming metadata, wherein the navigation system uses the selected one or more

first attribute values corresponding to the currently displayed first television program in

the first query to produce a first list of identify a plurality of television program identifiers

corresponding to a plurality of television programs identified by the navigation system as

corresponding to the selected one or more first-attribute values;

arranging the television programming metadata into a first data structure

wherein first attribute values are associated with program identifiers;

providing a user interface, wherein a navigation control is used to launch the

query by selecting the one or more attribute values from the displayed first set of

viewer-selectable attributes corresponding to the currently displayed first television

program for producing the first list of television program identifiers;

using receiving input from the navigation control to cycle through sequentially

display content of the plurality of television programs as a navigational axis

corresponding to the one or more attribute values, at least a portion of the first list to

access content of a second television program for displaying the content of the second

television program in place of the currently-displayed first television program, the

second television program accessed corresponding to the first list, wherein the

navigation control includes navigating the navigational axis by a single key used to cycle

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through displaying the content of the of plurality of television programs identified in the

first list without having to access a menu listing the plurality of television programs[[;]]

displaying the content of the second television program in response to the

navigation control accessing the different television program; and

during display of the content of the second television program, activating the

navigation system, wherein the navigation system automatically determines and

displays a second set of viewer-selectable attributes that are descriptive of the second

television program, wherein the navigation system overlays the second set of viewer-

selectable attributes on the display of the content of the different television program,

wherein one or more second attributes are selected to create a second list of television

program identifiers corresponding to the selected one or more attributes.

19. (Currently Amended): The method as recited in claim 18, wherein the navigation

control comprises a next key, a previous key and a select key, wherein the next key or

previous key is used to cycle through the content of the plurality of television programs

corresponding to the second list-identified without having to access a menu listing the

plurality of television programs in the second list for navigating to the content of a next

television program of the plurality of television programs in the second list.

20. - 23. (Canceled)

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24. (Previously Presented): The method as recited in claim 18, further comprising

displaying program information for each television program in response to the

navigation control accessing the television program.

25. (Currently Amended): The method as recited in claim 18, further comprising:

pausing a particular television program at a pause point in response to the

navigation control accessing another particular television program-on the first list of the

plurality of television programs; and

resuming the particular television program at the pause point in response to

the navigation control accessing the particular television program again.

26. (Canceled)

27. (Currently Amended): The method as recited in claim 18, further comprising

selecting multiple first attribute values, wherein the multiple first attribute values are

combined in the guery using Boolean logic operators, wherein the Boolean logic

operators are applied automatically.

28. (Previously Presented): The method as recited in claim 27, wherein the Boolean

operators are designated by a context of the currently displayed first television program.

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29. (Currently Amended): A multi-axis television navigation system, comprising:

a server for storing and accessing digital television programming content;

a navigation control for navigating any one of multiple navigational axes to

change from displaying a currently displayed television program to displaying a

television program provided by the server, and for selecting links to launch predefined

queries, wherein each predefined query queries a database based on television

program attributes selected by a viewer and returns a navigation axis comprising a list

of program identifiers of television programs corresponding to a value for the television

program attributes selected;

a means for storing television program metadata in a database;

a means for arranging the program metadata in a relational schema;

a means for defining and storing the pre-defined queries;

a means for embedding links to the pre-defined queries in logically associated

metadata for a currently displayed television program; and

a means for logically combining multiple predefined queries using Boolean

operators,

wherein the navigation system is configured to be activated during the display

of the currently displayed television program, wherein the navigation system

automatically determines and displays a set of viewer-selectable attributes that are

descriptive of different aspects of the currently displayed television program, wherein

the navigation system overlays the set of viewer-selectable attributes on the currently

displayed television program;

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wherein the navigation system uses one or more selected attribute values

selected from the set of viewer-selectable attributes corresponding to the currently

displayed television program to define one of the predefined queries to produce the list

of television program identifiers as a navigational axis;

wherein the navigation controls provide for navigation from display of the

currently displayed television program to display of a plurality of different television

programs corresponding to the television program identifiers in the list by activation of a

single key for cycling through display of the television programs along the navigational

axis identified by the list.

30. (Canceled):

31. (Previously Presented): The multi-axis television navigation system as recited in

claim 29, wherein the navigation control comprises a next key, a previous key and a

select key, wherein the next key or previous key is used to cycle through the television

programs corresponding to the list without having to access a menu listing the television

programs in the list for navigating to a next television program in the list.

32. (Original): The multi-axis television navigation system as recited in claim 29,

wherein the relational schema adheres at least in part to a global listings format.

33. (Previously Presented): A television navigation engine, executing on a computing

device, the engine comprising:

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a database for television program metadata;

a query engine to find program identifiers in the database corresponding to

predefined queries, wherein a predefined query returns a navigational axis from the

database, wherein a navigational axis is a list of program identifiers of television

programs;

a user interface to associate launch of one or more of the predefined queries

with selection of attributes descriptive of a currently displayed television program, and to

receive the attributes which are selected by a viewer, wherein activation of the user

interface during display of a currently displayed television program results in the user

interface presenting a set of viewer-selectable attributes that are descriptive of different

aspects of the currently displayed television program, wherein the user interface

overlays the set of viewer-selectable attributes on the currently displayed television

program for a viewer to select one or more attribute values from the displayed set of

viewer-selectable attributes to define a query;

an axis cache to store the list of program identifiers returned by one or more

predefined queries; and

a navigation controller associated with the user interface to select the attribute

values from the displayed set of attribute values corresponding to the currently

displayed television program for launching the one or more predefined queries, to

navigate the navigational axis that is the list of program identifiers of television programs

determined to correspond to the one or more predefined queries, and to display

television programs corresponding to the program identifiers on the list, wherein the

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navigation controller comprises a single key activated to display multiple programs

successively with corresponding successive single activations of the single key.

34. (Canceled)

35. (Previously Presented): The television navigation engine as recited in claim 33,

wherein the navigation controller is on a remote controller and comprises a next key, a

previous key and a select key, wherein the next key or previous key is used to cycle

through the television programs corresponding to the list without having to access a

menu listing the television programs in the list for navigating to display of a next

television program in the list.

36. (Currently Amended): A multi-axis television program system that comprises:

a processor coupled to computer readable storage media;

a multi-axis database schema implemented by a-the processor executing

instructions stored in the computer readable storage media, the schema comprising:

instructions for arranging a database of television programming

metadata into indices facilitating predefined queries;

wherein one or more links contextually associated with one or more

attributes of a currently displayed television program call the predefined

queries, wherein the one or more attributes are selected by a viewer from

among a set of attributes and logically combined using Boolean operators, and

wherein each attribute of the set corresponds to a combinable navigation

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context which can be used for generating a navigable sequence of television

programs along a navigational axis, wherein the set of attributes

corresponding to the currently displayed television program are automatically

determined by the processor and displayed as viewer-selectable attributes

when a user interface is activated during display of the currently displayed

television program;

wherein the predefined queries return a list of identifiers from the

database corresponding with one or more of the attributes,

wherein each list forms a navigational axis,

wherein each identifier in a list corresponds to either an on-demand

or currently broadcast television program,

wherein the television programs on the list are displayed as

accessed by a television channel navigation means control for navigating one

or more navigational axes, wherein the television channel navigation means

control comprises a next key, a previous key and a select key, wherein the

next key or previous key is used to cycle through the television programs

corresponding to the list without having to access a menu listing the television

programs in the list for navigating to a next television program in the

sequence.

37. (Currently Amended): The multi-axis television program system database schema

as recited in claim 36, wherein the one or more attributes include at least one of: type of

program, program title, alphabetical order of title, year of release, channel, time, first air

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date, episode order, episode name, genre, actors, writer, director, producer, rating,

sound characteristics, video characteristics, language, subtitles, closeness of match to

search criteria, and or popularity.

38. (Currently Amended): A multi-axis television program system that comprises one

One or more computer readable media containing having instructions stored thereon

that are executable by a computer to perform actions comprising:

defining a television navigation axis according to attributes of television

programs where one or more attributes define the navigational axis;

activating a navigation system during display of a currently displayed television

program, wherein the navigation system automatically determines and displays a set of

viewer-selectable attributes that are descriptive of different aspects of the currently

displayed television program, wherein the navigation system overlays the set of viewer-

selectable attributes on the currently displayed television program;

receiving a viewer selection of one or more attributes from among the

displayed set of viewer-selectable attributes, wherein each attribute displayed is

descriptive of a different aspect of the currently displayed television program;

providing a database of television program identifiers and attributes descriptive

of the television programs corresponding to the television program identifiers in the

database;

providing an interface means for selecting and launching a database query

based on the one or more selected attributes corresponding to the currently displayed

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television program, wherein the query returns a list of program identifiers of television

programs having the one or more attributes that define the navigational axis; and

instructions to cycle through displaying sequentially the television programs

[[on]] in the list when a user uses a navigation controller for changing television

channels that, in turn, navigates to navigate along the navigational axis without having

to access a menu listing the television programs in the list for navigating to a next

television program in the list.

39. (Canceled)

40. (Previously Presented): A method comprising:

displaying a currently displayed television program on a television;

activating a navigation system during display of the currently displayed

television program, wherein the navigation system determines and displays a set of

viewer-selectable attributes corresponding to the currently displayed television program,

wherein the navigation system overlays the set of viewer-selectable attributes on the

currently displayed television program, the set of attributes comprising attributes which

are each descriptive of a different aspect of the currently displayed television program;

selecting an attribute from the set of view selectable attributes using one or

more of three navigation keys comprising a previous key, a next key and a select key;

querying a database of television program metadata corresponding to

television programs based on the selected attribute;

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receiving results from the querying wherein the results comprise television

program identifiers and wherein each of the television program identifiers identifies a

television program having the selected attribute in common with the currently displayed

television program;

generating a navigational axis for navigating the television programs that

correspond to the television program identifiers wherein the navigational axis comprises

an axis independent of a future time;

receiving an instruction to change a channel on the television by activation of a

single channel change key;

responsive to receipt of the instruction, navigating the navigational axis from a

first channel displaying the currently displayed television program to a second channel

displaying a different television program located on the navigational axis; and

displaying the different television program on the television, wherein the

different television program displayed is on a second channel that is not numerically

adjacent to the first channel.

41. (Previously Presented): The method of claim 40 further comprising presenting on

the television the navigational axis and at least some information for the television

programs that correspond to the television program identifiers.

42. (Previously Presented): The method of claim 40 further comprising:

during display of the different television program, activating the navigation

system again, wherein the navigation system automatically determines and displays a

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different set of viewer-selectable attributes that are descriptive of the different television

program, wherein the navigation system overlays the different set of viewer-selectable

attributes on the display of the different television program, wherein one or more of the

different attributes is selected to create a new list of television program identifiers

corresponding to the selected one or more different attributes for creating an additional

navigational axis, the additional navigational axis based on results from a different query

based on the one or more different attributes.

43. (Previously Presented): The method of claim 42 wherein a two-dimensional control

feature allows for navigation along the navigational axis, the two-dimensional control

feature comprising a next key and a previous key each being a channel change key,

wherein the next key or previous key is used to cycle through the television programs

corresponding to the list without having to access a menu listing the television programs

in the list for navigating to a next television program in the list.

44. (Currently Amended): One or more computer-readable media comprising having

computer-executable instructions stored thereon to perform the method of claim 40.

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